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~~Standard Table of Body Measurements for Adult Female Misses Figure Type, Sizes 2-20~~ Designation: D 5585 - 11

Standard Tables of Body Measurements for Adult Female Misses Figure Type, Size Range 00-20¹

This standard is issued under the fixed designation D 5585; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

INTRODUCTION

~~This body measurement table was developed from body measurements used currently by apparel manufacturers and retail organizations and from anthropometric surveys conducted by the U.S. Army (Gordon, et al., 1988~~

~~These body measurement tables were developed from evaluation of data currently used in the apparel industry. These tables were developed from data published by the U.S. Department of Commerce,²) and by the U.S. Navy (Mellian, et al., 1990 Caesar Study³ and Robinette, 1990, Size USA Study,⁴). The measurements were derived originally from the PS 42-70 database, Current USA industry and studies, and scans and documentation from Alvanon Inc.⁵ which was developed from anthropometric research conducted in 1941 by O'Brien and Shelton. It is important to note that the body measurements herein have been derived from designer experience and market observations and crosschecked with available databases in the attempt to identify current customer characteristics and changing proportions and not from new nationwide anthropometric research. This standard takes into consideration Misses figure at a standard height of 5 ft 5 in. (65 % of average USA population) taking into account the decrease and increase in body weight that shift a person from one size to another, while this person does not gain in height. Also included is a definition of body type, Curvy or Straight as applied to waist, high hip, hip seat, thigh and mid-thigh girths that result in a different body shape (silhouette). Major review and evaluation was done. The incremental growth at different key body points has been addressed and defined, which resulted in identifying increases and decreases at different rates in specific areas; bust, waist, high hip and hip/seat. Additionally, to better serve the industry, incremental movement between sizes was reviewed ensuring smooth transition between sizes. To verify the proposed body measurements, a three-dimensional Avatar was created in the Misses size range 00 through 20 (Curvy and Straight) by Alvanon Inc. for a visual reference and is~~

¹ This table is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.55 on Body Measurement for Apparel Measurement.

Current edition approved Sept. 10, 1995. Published December 1995. Originally published as D5585-94. Last previous edition D5585-94. DOI: 10.1520/D5585-95R01 on Body Measurement for Apparel Sizing.

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² Gordon, C., Churchill, T., Clauser, C., Bradtmiller, B., and McConville, J., 1988 *Anthropometric Survey of the U.S. Army Natick R& D Center, Technical Report Natick/TR-89/044, 1988.*

³ U.S. Department of Commerce, Voluntary Product Standard: Body Measurements for Sizing of Girls' Apparel, NIST Publication No. PS 54-172, Washington DC.

⁴ Mellian, S., Ervin, C., and Robinette, K., *Sizing Evaluation of Navy Women's Uniforms, Navy Clothing and Textile Research Facility Technical Report No. NCTRF 182, 1990.*

⁵ Caesar: Summary Statistics for the Adult population (Ages 18-65) of the United States of America, 2002.

⁶ Robinette, K., Mellian, S., and Ervin, C., *Development of Sizing Systems for Navy Women's Uniforms, Navy Clothing and Textile Research Facility Technical Report No. NCTRF 182, 1990.*

⁷ Available from: <http://www.tc2.com/sizeusa.html>

⁸ U.S. Department of Commerce, *Voluntary Product Standard: Body Measurements for the Sizing of Women's Patterns and Apparel*, NIST Publication No. PS 42-70, Washington, DC, 1971.

⁹ Alvanon, Inc., 145 W. 30th Street, Suite 1000, New York, NY 10001.

also attached in the documentation.

1. Scope

~~1.1 This table lists~~ 1.1 These tables list body measurements of the adult female misses figure type, Type sizes 200 through 20. Although these are body measurements, they can be used as a baseline in designing apparel for misses figures Missy in this size range when considering such factors as fabric type, ~~desired~~ ease for body movement, styling, and fit.

1.2 These tables list body measurements for the complete range of Missy sizing.

1.3 The values stated in either ~~acceptable~~ SI units or inch-pound units ~~shall~~ are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system ~~must~~ shall be used independently of the other, ~~without combining other~~. Combining values from the two systems may result in ~~any way~~ non-conformance with the standard.

2. Referenced Documents

2.1 *ASTM Standards*:⁶

D 123 ~~Terminology Relating to Textiles~~ Terminology Relating to Textile Materials

D 5219 Terminology Relating to a Body Dimensions for Apparel Sizing

2.2 *ISO Standards*:

ISO 3635-1981 ~~Size Designation of Clothes, Definition and Body Measurement Procedures~~

ISO 8559 ~~Garment Construction and Anthropometric Surveys—Body Dimensions~~⁷

ISO 3635 Size Designation of Clothes, Definitions, and Body Measurement Procedures

3. Terminology

3.1 *Definitions* — For definitions relating to body dimensions, refer to Terminology D 5219. For definitions of other textile terms used in this table, refer to Terminology D 123

3.1.1 For definitions relating to body dimensions, refer to Terminology D 5219.

3.1.2 For definitions of other textile terms used in this standard, refer to Terminology D 123–03.

4. Significance and Use

4.1 The use of the body measurement information given in Table 1 will enable manufacturers to develop patterns and garments that are consistent with the current anthropometric characteristics of the population of interest.

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ASTM D5585-11

<https://standards.iteh.ai/catalog/standards/sist/29d785da-05a2-4cf4-ba49-85da6a6147c7/astm-d5585-11>

⁶ O'Brien, R., and Shelton, W. C., *Women's Measurements for Garment and Pattern Construction*, Miscellaneous Publication No. 454, U.S. Department of Agriculture, 1941.

⁶ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

⁷ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

⁷ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

TABLE 1 Standard Table of Body Measurements for Adult Female Misses Figure Type, Sizes 2–20

Girth Measurements in in.										
Size	2	4	6	8	10	12	14	16	18	20
Bust	32	33	34	35	36	37½	39	40½	42½	44½
Waist	24	25	26	27	28	29½	31	32½	34½	36½
High hip	31½	32½	33½	34½	35½	37	38½	40	42	44
Hip	34½	35½	36½	37½	38½	40	41½	43	45	47
Mid-neck	13	13¼	13½	13¾	14	14¾	14¾	15½	15½	16½
Neck-base	13½	13¾	14	14¼	14½	14¾	15¼	15½	16½	16½
Armseye	14¼	14½	15	15¾	15¾	16¾	17	17½	18½	19½
Upper-arm	10	10¼	10½	10¾	11	11¾	11¾	12½	12¾	13¾
Elbow	9¾	9½	9¾	9¾	9¾	10½	10¾	10¾	11	11¾
Wrist	5½	5¾	5¾	6	6½	6½	6½	6½	6½	6½
Thigh, max	19½	20¼	21	21¾	22½	23½	24½	25½	26¾	28
Thigh, mid	18¼	18¾	19¼	19¾	20¼	21	21¾	22½	23½	24½
Knee	13	13¾	13¾	14¾	14½	15	15½	16	16½	17
Galf	12½	12¾	13¼	13¾	14	14½	15	15½	16	16½
Ankle	8¾	8¾	8¾	9¾	9¾	9¾	9¾	10¾	10¾	10¾
Vertical-trunk	56	57½	59	60½	62	63½	65	66½	68	69½
Total-crotch	25	25¾	26½	27¼	28	28¾	29½	30¼	31	31¾
Vertical Measurements in in.										
Stature	63½	64	64½	65	65½	66	66½	67	67½	68
Cervical-height	54½	55	55½	56	56½	57	57½	58	58½	59
Waist-height	39¼	39½	39¾	40	40¼	40½	40¾	41	41¼	41½
High-hip-height	35¼	35½	35¾	36	36¼	36½	36¾	37	37¼	37½
Hip-height	31¼	31½	31¾	32	32¼	32½	32¾	33	33¼	33½
Crotch-height	29½	29½	29½	29½	29½	29½	29½	29½	29½	29½
Knee-height	17¾	17¾	17¾	18	18½	18½	18½	18½	18½	18¾
Ankle-height	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾
Waist-length (front)	13½	13¾	14	14¼	14½	14¾	15	15¼	15½	15¾
Waist-length (back) (on Curve)	15½	15¾	16	16¼	16½	16¾	17	17¼	17½	17¾
True-rise	9¾	10	10¼	10½	10¾	11	11¼	11½	11¾	12
Width and Length Measurements in in.										
Across-shoulder	14¾	14¾	14¾	15¾	15¾	15¾	16¾	16½	17	17½
Cross-back width	13¾	14¾	14¾	14¾	14¾	15¼	15½	16	16½	17
Cross-chest width	12¾	13¾	13¾	13¾	13¾	14¼	14½	15	15½	16
Shoulder-length	4¼	5	5¼	5½	5½	5½	5½	5½	5½	5¼
Shoulder-slope (degrees)	23	23	23	23	23	23	23	23	23	23
Arm-length-shoulder-to-wrist	22¼	23¾	23¾	23¾	23¾	23¾	24¼	24¼	24¾	24¾
Arm-length-shoulder-to-elbow	13¼	13¾	13¾	13¾	13¾	13¾	14	14¼	14¼	14¾
Arm-length-center-back-neck-to-wrist	30¾	30¾	30¾	31¼	31¾	31¾	32¾	32¾	32¾	33¾
Bust-point-to-bust-point	7	7¼	7¼	7¾	8	8¼	8¼	8¼	9	9¼
Neck-to-bust-point	9¼	9¼	9¼	10	10¼	10¾	11	11¾	11¾	12¾
Seye-depth	7¾	7¼	7¾	7½	7¾	7¾	7¾	8	8½	8¼
Girth Measurements in cm										
Size	2	4	6	8	10	12	14	16	18	20
Bust	81.3	83.8	86.4	89.0	91.4	95.2	99.1	102.9	107.9	113
Waist	61.0	63.5	66.0	68.5	71.1	74.9	78.7	82.6	87.6	92.7
High hip	80.0	82.5	85.1	87.6	90.2	94.0	97.7	101.6	106.7	111.8
Hip	86.4	90.2	92.7	95.2	97.8	101.6	105.4	109.2	114.3	119.4
Mid-neck	33.0	33.7	34.3	34.9	35.6	36.5	37.5	38.4	39.7	40.1
Neck-base	34.3	34.9	35.6	36.2	36.8	37.8	38.7	39.7	40.9	42.2
Armseye	36.2	37.1	38.1	39.1	40.0	41.2	43.2	44.8	46.7	48.6
Upper-arm	25.4	26.0	26.7	27.3	27.9	28.9	29.8	30.8	32.4	34.0
Elbow	23.8	24.1	24.4	24.8	25.1	25.7	26.4	27.0	27.9	28.9
Wrist	14.3	14.6	14.9	15.2	15.6	15.9	16.2	16.5	16.8	17.1
Thigh, max	49.5	51.4	53.3	55.2	57.2	59.7	62.2	64.5	67.9	71.1
Thigh, mid	46.4	47.6	48.9	50.2	51.4	53.3	55.2	57.1	59.7	62.2
Knee	33.0	34.0	34.9	35.9	36.8	38.1	39.4	40.6	41.9	43.2
Galf	31.8	32.7	33.6	34.6	35.6	36.8	38.1	39.4	40.6	41.9
Ankle	21.3	21.9	22.5	23.2	23.8	24.4	25.1	26.7	26.4	27.0
Vertical-trunk	142.2	146.0	149.9	153.7	157.5	161.3	165.1	167.6	172.7	176.5
Total-crotch	63.5	65.4	67.3	69.2	71.1	73.0	75.0	76.8	78.7	80.6
Vertical Measurements in cm										
Stature	161.3	162.6	163.8	165.1	166.4	167.6	169.0	170.2	171.5	172.7
Cervical-height	138.4	139.7	141.7	142.2	143.5	144.8	146.1	147.3	148.6	149.9
Waist-height	99.7	100.3	101.0	101.6	102.2	102.9	103.5	104.1	104.8	105.4
High-hip-height	89.5	90.2	90.8	91.4	92.1	92.7	93.3	94.0	94.6	95.2
Hip-height	79.4	80.0	80.6	81.3	82.0	82.6	83.2	83.8	84.5	85.1
Crotch-height	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
Knee-height	44.8	45.1	45.4	45.7	46.0	46.4	46.7	47.0	47.3	47.6

TABLE — *Continued*

Ankle height	7-0	7-0	7-0	7-0	7-0	7-0	7-0	7-0	7-0	7-0
Waist length (front)	34.3	34.9	35.6	36.2	36.8	37.5	38.1	38.7	39.4	40.0
Girth Measurements in cm										
Size	2	4	6	8	10	12	14	16	18	20
Waist length (back) (on Curve)	38.8	40.0	40.6	41.3	41.9	42.5	43.2	43.8	44.5	45.1
True Rise	24.8	25.4	26.0	26.7	27.3	28.0	28.6	29.2	29.8	30.5
Width and Length Measurements in cm										
Across-shoulder	36.5	37.1	37.8	38.4	39.1	40.0	41.0	42.0	43.2	44.5
Cross-back width	35.2	35.9	36.5	37.1	37.8	38.7	39.7	40.6	42.0	43.2
Cross-chest width	32.7	33.3	34.0	34.6	35.2	36.2	37.1	38.1	39.4	40.6
Shoulder length	12.5	12.7	12.9	13.0	13.2	13.5	13.8	14.1	14.6	15.1
Shoulder slope, degrees	23	23	23	23	23	23	23	23	23	23
Arm length-shoulder to wrist	58.3	58.7	59.2	59.7	60.2	60.6	61.1	61.6	62.1	62.5
Arm length-shoulder to elbow	33.7	34.0	34.3	34.6	34.9	35.2	35.6	35.9	36.2	36.5
Arm length-center back-neck to wrist	76.5	77.3	78.1	78.9	79.7	80.6	81.6	82.6	83.7	84.8
Bust point to bust point	17.78	18.4	19.1	19.7	20.3	21.0	21.6	22.2	22.9	23.5
Neck to bust point	23.5	24.1	24.8	25.4	26.0	27.0	28.0	28.9	30.2	31.4
Seye depth	18.1	18.4	18.7	19.0	19.4	19.7	20.0	20.3	20.6	21.0

4.2 This table should in turn reduce or minimize consumer confusion and dissatisfaction related to apparel sizing.

4.3 For further information, refer to ISO 3635 and ISO 8559 and Table 2 will assist manufacturers in developing patterns and garments that are consistent with the current anthropometric characteristics of the population of interest. This practice should in turn reduce or minimize consumer confusion and dissatisfaction related to apparel sizing. (Also refer to ISO 3635.)

4.2 Three-dimensional avatars depicting each of the missy sizes and sub category curvy and straight on certain measures, were created by Alvanon, Inc. and included in this standard to assist manufacturers in visualizing the posture, shape, and proportions generated by the measurements charts in the accompanying tables. (Avatar 1-6) See Fig. 1 and Fig. 2.

5. Apparatus

5.1 All apparatus are calibrated for accuracy.

5.2

5.1 *Tape Measure*, dimensionally stable and approximately 15 mm (½ in.) wide and graduated accurately in mm (1/16 in.) increments, dimensionally stable and approximately 1.5 cm (½ in.) wide and graduated accurately in cm (1/16 in.).

5.2 *Plastic Goniometry*, to measure the radian (degree) of shoulder slope.

5.3 *Plastic Goniometer*, to measure the degree of shoulder slope. Scale, standard, calibrated, body weight type.

5.4 *Plastic L-Square Metal Ruler*.

5.5 *Standard Body-Weight Scale*.

6. Procedure

6.1 *General Procedure* General:

6.1.1 Verify that measuring devices and scales are within calibration.

6.1.2 For all vertical and most horizontal measurements, measure the body while standing erect without shoes and with feet approximately 15 cm (6 in.) apart.

6.1.3 Take measurements over regular undergarments normally worn when shopping for well-fitted apparel.

6.1.4 For bust-related dimensions, measure over an unpadded brassiere that fits exactly, is made of thin material, and does not contain metal or other supports.

6.1.5 Take all measurements except torso circumferences, height, and weight from the same side of the body for consistency.

6.1.6 Refer to Terminology D5219 for the location of all points to be measured (See Section 2).

6.1.1 For all vertical and most horizontal measurements, subject is to be standing erect without shoes and with feet approximately 15 cm (6 in.) apart. (for Infant special cases) For all vertical and most horizontal measurements, subject is to be lying down flat with legs extended and foot positioned at 1.57 rad (90°) to the leg.

6.1.2 Take measurements over regular undergarments normally worn.

6.1.3 Take all measurements from the same side of the body for consistency.

6.1.4 Refer to Terminology D 5219 for the location of all points to be measured.

6.2 *Body Measurements*:

6.2.1 *Bust*—Measure the bust circumference horizontally around the body under the arms, across the nipples, and parallel to the floor. *Body Weight*—Weight as measured on a calibrated scale taken with the subject in undergarments.

6.2.2 *Waist*—Measure the waist circumference horizontally around the body at the waist level. *Head Girth*—Measure the maximum horizontal circumference of the head above the ears.

6.2.3 *High-Hip*—Measure the high hip circumference of the body at high-hip level, approximately 7.5 cm (3 in.) below the waist level and parallel to the floor. *Neck Base Girth*—Measure the circumference of the neck, taken over the cervicale at the back and the top of the collarbone at the front.

6.2.4 *Hip*—Measure the maximum hip circumference of the body at the hip level and parallel to the floor. *Mid-Neck Girth*—Measure the horizontal circumference of the neck, taken approximately 25 mm (1 in.) above the neck base level.

6.2.5 *Mid-Neck*—Measure the mid-neck circumference of the neck approximately 25 cm (1 in.) above the neck base. *Shoulder Girth*—Measure the horizontal circumference around the shoulders, taken at the front break-point level with the arms down.

6.2.6 *Neck Base*—With tape measure standing on edge, measure the circumference of the neck base crossing the cervicale at the back, shoulder line/neck base at side, and hollow at center front. *Chest/Bust Girth*—Measure the horizontal circumference around the body, taken under the arms and across the fullest part of the chest/bust apex including the lower portion of the shoulder blades.

6.2.7 *Armscye*—With the arm hanging down, measure from the shoulder joint down through the front-break point, the armpit, up to the back-break point, and up to the starting point. *Under-Bust Girth*—Measure the horizontal circumference around the body under the arms and bust.

6.2.8 *Upper Arm*—With the arm down, measure the maximum upper arm circumference parallel to the floor between the shoulder joint and the elbow. *Upper-Chest Girth*—Measure the horizontal circumference around the body, taken under the arms and above the fullest part of the chest/bust including the lower portion of the shoulder blades.

6.2.9 *Elbow*—With the arm bent, measure the elbow circumference. *Waist Girth*—Measure the minimum horizontal circumference around the body at waist height.

6.2.10 *Wrist*—Measure the wrist circumference over the inner and outer prominence at the lower end of the forearm. *High-Hip Girth*—Measure the maximum horizontal circumference around the body, taken at high hip level approximately 7.5 cm (3 in.) below the waist level including the abdominal extension.

6.2.11 *Thigh, Maximum*—Measure the circumference of the upper leg close to the crotch. *Hip/Seat Girth*—Measure the maximum horizontal circumference around the body at hip height.

6.2.12 *Thigh, Mid*—Measure the circumference of the upper leg midway between the hip and the knee. *Thigh Girth*—Measure the maximum horizontal circumference of the upper leg, taken close to the crotch.

6.2.13 *Knee*—With the leg straight, measure the knee circumference over the knee cap and parallel to the floor. *Mid-Thigh Girth*—the maximum horizontal circumference of the upper leg, taken midway between the hip girth level and the midpoint (or crease) of the knee.

6.2.14 *Calf*—Measure the maximum circumference of the lower leg between the knee and the ankle and parallel to the floor. *Knee Girth*—Measure the maximum horizontal circumference of the knee, taken over the kneecap with the leg straight.

6.2.15 *Ankle*—Measure the ankle circumference over the inner and outer bony prominence at the lower end of the lower leg. *Calf Girth*—Measure the maximum horizontal circumference of the lower leg, taken between the knee and the ankle.

6.2.16 *Vertical Trunk*—Measure from a point on the right shoulder midway between the neck base and shoulder joint, down the back, through the crotch, and up over the prominence of the right breast to the starting point, taking care to avoid constriction at the crotch. *Ankle Girth*—Measure the maximum horizontal circumference of the ankle, taken over the greatest prominence of the anklebones.

6.2.17 *Total Crotch Length*—Measure from the center front waist level through the crotch to the center back waist level. *Armscye Girth*—Measure the circumference from the shoulder joint through the front break-point, the armpit, the back break-point and to the starting point, taken with the arms down.

6.2.18 *Height*—In a standing position, measure from the top of the head to the soles of the feet. *Upper-Arm Girth*—Measure the maximum circumference of the arm, taken midway between the elbow and the shoulder joints with the arm bent 1.57 rad (90°).

6.2.19 *Stature*—Measure from the top of the head to the soles of the feet. *Elbow Girth*—Measure the maximum circumference of the elbow, taken over the outer prominence of the elbow bone with the arm bent 1.57 rad (90°).

6.2.20 *Cervicale Height*—Measure from the cervicale following the contour of the spinal column to the level of the hips, then vertically to the soles of the feet. *Wrist Girth*—Measure the maximum circumference of the wrist, taken over the inner and outer prominence of the wrist bones.

6.2.21 *Waist Height*—Measure from the waist level at the side of the body following the contour of the body to hip level, then vertically to the soles of the feet. *Hand Girth*—Measure the maximum circumference of the hand around the knuckles excluding the thumb, taken with the fingers together.

6.2.22 *High-Hip Height*—At the side of the body, measure from the level of the prominent high-hip (abdominal extension) following the contour of the body to the soles of the feet. *Trunk Length (total vertical)*—Measure the circumference taken from a point on the right shoulder midway between the neck base and the shoulder joint, down the back through the crotch and up over the prominence of the right chest/bust apex to the starting point, avoiding constriction at the crotch.

6.2.23 *Hip Height*—At the side of the body, measure from the full hip level to the soles of the feet. *Height*—Measure the vertical distance from the crown of the head to the floor, taken with subject standing and without shoes.

6.2.24 *Crotch Height*—While standing erect without shoes and with feet slightly apart, measure from the crotch straight down to the soles of the feet. *Head and Neck Length*—Measure the distance from the crown of the head to the cervicale (contour), taken with the head erect and the neck unbent.

6.2.25 *Knee Height*—Measure from the crease in the back of the knee to the soles of the feet. *Cervicale Height*—Measure the vertical distance from the cervicale to the floor, taken with subject standing and without shoes.

6.2.26 Ankle Height—Measure from the middle of the outer ankle bone to the soles of the feet. Cervicale to Knee—Measure the vertical distance from the cervicale to a point level with the mid-point of the back of the knee (or crease).

6.2.27 Waist Length (Front)—Measure from the center front neck base line to the center front waist level. Center Back Waist Length—Measure from the cervicale to the center back waist level, taken along the spine (contour).

6.2.28 Waist Length (Back)—Measure from the cervicale following the contour of the spinal column to the center back waist level. Center Front Waist Length—Measure from the center front neck base line to the center front waist level (contour).

6.2.29 True Rise—While sitting on a hard, flat surface, measure straight down from the waist level at the side of the body to the flat surface. Scye Depth—Measure the vertical distance from the cervicale to the back break-point level, taken with the arms down.

6.2.30 Across Shoulder—While standing erect with the arms hanging down, measure across the back from one shoulder joint to the other. Side Waist Length—Measure the distance from the mid-underarm point of the armseye to the waist level, taken along the side of the body (contour).

6.2.31 Cross-Back Width—Measure across the back from armseye to armseye at the back-break point level. Waist to Hip/Seat Height—Measure the distance from the waist level to the hip girth level, taken along the side of the body (contour).

6.2.32 Cross-Chest Width—Measure across the chest from armseye to armseye at the front-break point level. Waist to Knee Height—Measure the vertical distance from the waist level to a point level with the midpoint of the back of the knee (or crease), taken along the side of the body.

6.2.33 Shoulder Length—With the arm hanging down, measure from the side of the neck base to the armseye line at the shoulder joint. Waist Height—Measure the distance from the waist level to the hip girth level along the side of the body (contour) then vertically to the floor, taken with subject standing and without shoes.

6.2.34 Shoulder Slope—Using a goniometer, position the measure on the shoulder and move the baseline until it is parallel to the floor; identify on the dial the degrees of difference between the shoulder slant and the horizontal measure of the goniometer. High-Hip Height—Measure the distance from the high-hip girth level to the hip girth level along the side of the body (contour) then vertically to the floor, taken with the subject standing and without shoes.

6.2.35 Arm Length (Shoulder to Wrist)—With the arm bent at 90 degrees and the hand placed on the hip, measure from the shoulder joint down along the outside of the arm over the elbow to the prominent wrist bone. Hip/Seat Height—Measure the vertical distance from the hip girth level to the floor along the side of the body, taken with subject standing and without shoes.

6.2.36 Arm Length (Shoulder to Elbow)—With the arm bent at 90 degrees and the hand placed on the hip, measure from the shoulder joint along the outside of the arm to the center elbow bone. Crotch Height—Measure the vertical distance from the midpoint of the crotch to the floor, taken with the subject standing and without shoes.

6.2.37 Arm Length (Center Back Neck to Wrist)—With the arm bent at 90 degrees, measure from the cervicale over the top of the shoulder to the shoulder joint, then along the outside of the arm over the elbow to the prominent wrist bone. Rise Height—Measure the vertical distance from the waist level at the side of the torso to the flat surface, taken with subject sitting on hard, flat surface.

6.2.38 Bust Point to Bust Point—Measure horizontally from one bust apex to the other. Knee Height—Measure the vertical distance from the midpoint of the back of the knee (or crease) to the floor, taken with subject standing and without shoes.

6.2.39 Neck to Bust Point—Measure from the intersection of shoulder and front neck base to the bust apex. Ankle Height—Measure the vertical distance from the prominence of the outer ankle bone to the floor, taken with subject standing and without shoes.

6.2.40 Scye Depth—Measure vertically on the body from the cervicale to the upper edge of a tape passed horizontally under the armpits. Crotch Length (total)—Measure the distance from waist level at the center front, through the crotch and to the waist level at the center back, avoiding constriction at the crotch.

6.2.41 Shoulder Length—Measure the distance from the side of the neck base to the top of the shoulder joint, taken with the arm down.

6.2.42 Shoulder Slope—Measure the degree of difference between the shoulder slant and the horizontal line that originates at the side neck base, taken with a goniometer positioned on the shoulder and moved until the baseline is parallel to the floor.

6.2.43 Shoulder Drop—Measure the vertical distance from the side of the neck base to the top of the shoulder joint, taken with the arm down.

6.2.44 Across Back Shoulder Width—Measure the horizontal distance across the back from the top of one shoulder joint to the top of the other shoulder joint, taken with the arms down.

6.2.45 Upper Back Width—Measure the horizontal distance across the back from back break-point to back break-point over the shoulder blades, taken with the arms down.

6.2.46 Upper Front Chest Width—Measure the horizontal distance across the chest from the front break-point, taken with the arms down.

6.2.47 Back Width—Measure the horizontal distance across the back from back break-point to back break-point over the shoulder blades, taken with the arms down.

6.2.48 Front Chest Width—Measure the horizontal distance across the chest from the front break-point, taken with the arms down.